

ESE ALCOHOL, INC.
PO BOX 848
LEOTI, KS 67861

SWD

MONITORING REPORT
KDHE - DIVISION OF ENVIRONMENT
BUREAU OF WATER - TECHNICAL SERVICES SECTION
FORBES FIELD, BUILDING 283
TOPEKA, KS 66620-001

DUE QUARTERLY: JAN 28TH, APRIL 28TH
JULY 28TH AND OCT 28TH FOR A YEAR
THEN ANNUALLY THEREAFTER
ISSUE DATE 10/01/2010
EXPIRATION DATE 09/30/2015
TELEPHONE NO (620) 375-4904

RMITS & COMPLIANCE

EPA - TARGET RATE

MCL - MAXIMUM CONTAMINANT LEVEL (highlighted)

NAS - NATIONAL ACADEMY OF SCIENCES

NSDWR - NATIONAL SECONDARY DRINKING WATER REGULATIONS (highlighted)

GROUNDWATER MONITORING WELLS

PAGE 1

KANSAS PERMIT # 1-UA26-NP01

KANSAS PERMIT # 1-UA26-NP01

	ARSENIC TOTAL	ARSENIC FILTERED	LEAD FILTERED	NICKEL FILTERED	SELENIUM FILTERED	ZINC FILTERED	BARIUM FILTERED	IRON TOTAL	IRON FILTERED	TOTAL MANGANESE	ALUMINUM	CHLORIDE	SODIUM
STANDARD	MCL	MCL	MCL		MCL	NSDWR	MCL	NSDWR	NSDWR	NSDWR	NSDWR	NSDWR	NAS
LIMIT	10 ug/L	10 ug/L	5 ug/L	10 ug/L	5 ug/L	20 ug/L	10 ug/L	50 ug/L	50 ug/L	5 ug/L	75 ug/L	10 mg/L	0.5 ug/L

GroundWater Monitoring Well #1

TESTING BY PACE ANALYTICAL SERVICES, INC.

REPORTING PERIOD 04/28/2019

TESTING BY PACE ANALYTICAL SE

FILTERED-DISSOLVED (LOW FLOW PUMP)

quantitative level	1.0 ug/L	1.0 ug/L	10.0 ug/L	5.0 ug/L	15.0 ug/L	50.0 ug/L	5.0 ug/L	50.0 ug/L	50.0 ug/L	5.0 ug/L	75.0 ug/L	10.0 mg/L	500.0 ug/L
04/15/2019	2.7	2.9	ND	ND	ND	ND	136	ND	ND	13.2	ND	140	60.600

GroundWater Monitoring Well #2

TESTING BY PACE ANALYTICAL SERVICES, INC.

REPORTING PERIOD 04/28/2019

TESTING BY PACE ANALYTICAL SE

FILTERED-DISSOLVED (LOW FLOW PUMP)

quantitative level	5.0 ug/L	5.0 ug/L	10.0 ug/L	5.0 ug/L	15.0 ug/L	50.0 ug/L	5.0 ug/L	50.0 ug/L	50.0 ug/L	5.0 ug/L	75.0 ug/L	50.0 mg/L	500.0 ug/L
04/15/2019	31.5	33	ND	110	ND	ND	3960	20,700	19700	1460	ND	465	138,000

GroundWater Monitoring Well #3

TESTING BY PACE ANALYTICAL SERVICES, INC.

REPORTING PERIOD 04/28/2019

TESTING BY PACE ANALYTICAL SE

FILTERED-DISSOLVED (LOW FLOW PUMP)

quantitative level	5.0 ug/L	5.0 ug/L	10.0 ug/L	5.0 ug/L	15.0 ug/L	50.0 ug/L	5.0 ug/L	50.0 ug/L	50.0 ug/L	5.0 ug/L	75.0 ug/L	10.0 mg/L	500.0 ug/L
04/15/2019	65.2	72.9	ND	82.3	ND	ND	2,750	6,100	5,960	760	ND	213	72,200

GroundWater Monitoring Well #4

TESTING BY PACE ANALYTICAL SERVICES, INC.

REPORTING PERIOD 04/28/2019

TESTING BY PACE ANALYTICAL SE

FILTERED-DISSOLVED (LOW FLOW PUMP)

quantitative level	5.0 ug/L	5.0 ug/L	10.0 ug/L	5.0 ug/L	15.0 ug/L	50.0 ug/L	5.0 ug/L	50.0 ug/L	50.0 ug/L	5.0 ug/L	75.0 ug/L	10.0 mg/L	500.0 ug/L
04/15/2019	14.4	13.1	ND	46.1	ND	ND	121	1,880	1,680	1,170	ND	90.8	56,700

GroundWater Monitoring Well #5

TESTING BY PACE ANALYTICAL SERVICES, INC.

REPORTING PERIOD 04/28/2019

TESTING BY PACE ANALYTICAL SE

FILTERED-DISSOLVED (LOW FLOW PUMP)

quantitative level	5.0 ug/L	5.0 ug/L	10.0 ug/L	5.0 ug/L	15.0 ug/L	50.0 ug/L	5.0 ug/L	50.0 ug/L	50.0 ug/L	5.0 ug/L	75.0 ug/L	50.0 mg/L	500.0 ug/L
04/15/2019	59.8	53.6	ND	78.2	ND	ND	4,010	14,100	12,900	1,740	ND	576	198,000

GroundWater Monitoring Well #7

TESTING BY PACE ANALYTICAL SERVICES, INC.

REPORTING PERIOD 04/28/2019

TESTING BY PACE ANALYTICAL SE

FILTERED-DISSOLVED (LOW FLOW PUMP)

quantitative level	5.0 ug/L	5.0 ug/L	10.0 ug/L	5.0 ug/L	15.0 ug/L	50.0 ug/L	5.0 ug/L	50.0 ug/L	50.0 ug/L	5.0 ug/L	75.0 ug/L	20.0 mg/L	500.0 ug/L
04/15/2019	124	112	ND	171	ND	ND	5.62	20,000	19,800	1,000	ND	277	80,100

GroundWater Monitoring Well #8

TESTING BY PACE ANALYTICAL SERVICES, INC.

REPORTING PERIOD 04/28/2019

TESTING BY PACE ANALYTICAL SE

FILTERED-DISSOLVED (LOW FLOW PUMP)

quantitative level	20.0 ug/L	20.0 ug/L	10.0 ug/L	5.0 ug/L	15.0 ug/L	50.0 ug/L	5.0 ug/L	50.0 ug/L	50.0 ug/L	5.0 ug/L	75.0 ug/L	50.0 mg/L	500.0 ug/L
04/15/2019	242	243	ND	3.4	ND	ND	935	20,800	20,700	876	ND	378	120,000

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FORBES FIELD, BUILDING 283
TOPEKA, KS 66620-001
ATTN: PERMITS & COMPLIANCE

DUE QUARTERLY JAN 28TH, APRIL 28TH
JULY 28TH AND OCT 28TH FOR A YEAR
THEN ANNUALLY THEREAFTER

ISSUE DATE 08/01/04

EXPIRATION DATE 12/31/07

TELEPHONE NO (620) 375-4904

EPA - TARGET RATE

MSL - MAXIMUM CONTAMINANT LEVEL (mg/L)

NAS - NATIONAL ACADEMY OF SCIENCES

NSDWR - NATIONAL SECONDARY DRINKING WATER REGULATIONS (mg/L)

GROUNDWATER MONITORING WELLS

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KANSAS PERMIT # I-UA26-NP01

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SULFATE	SULFIDE	NO ₃ NITRATE	TOTAL PHOSPHORUS	TOTAL ORGANIC CARBON	FIELD ELECTRICAL CONDUCTIVITY	FIELD pH	STATIC WATER ELEVATION
NSDWR		MSL			mmhos	NSDWR	
1.0 mg/L	1.0 mg/L	0.10 mg/L	0.1 mg/L	1.0 mg/L		0.01 u	Feet

GroundWater Monitoring Well #1

RVICES, INC.

REPORTING PERIOD 04/28/2019

10.0 mg/L	1.0 mg/L	0.10 mg/L	0.10 mg/L	1.0 mg/L	mmhos	10.0 u	FEET
92.2	ND	8.7	ND	1.4	1.26	6.72	141.75

GroundWater Monitoring Well #2

RVICES, INC.

REPORTING PERIOD 04/28/2019

1.0 mg/L	1.0 mg/L	0.10 mg/L	0.10 mg/L	1.0 mg/L	mmhos	10.0 u	FEET
2.5	ND	ND	ND	7.1	2.77	6.59	142.39

GroundWater Monitoring Well #3

RVICES, INC.

REPORTING PERIOD 04/28/2019

1.0 mg/L	1.0 mg/L	0.10 mg/L	0.10 mg/L	1.0 mg/L	mmhos	10.0 u	FEET
ND	ND	ND	ND	7.2	2.07	6.79	142.01

GroundWater Monitoring Well #4

RVICES, INC.

REPORTING PERIOD 04/28/2019

10.0 mg/L	1.0 mg/L	0.10 mg/L	0.10 mg/L	1.0 mg/L	mmhos	10.0 u	FEET
58.6	ND	ND	ND	2.8	1.37	6.71	143.78

GroundWater Monitoring Well #5

RVICES, INC.

REPORTING PERIOD 04/28/2019

1.0 mg/L	1.0 mg/L	0.10 mg/L	0.10 mg/L	1.0 mg/L	mmhos	10.0 u	FEET
3.2	1.8	ND	ND	4.9	3.36	6.74	140.02

GroundWater Monitoring Well #7

RVICES, INC.

REPORTING PERIOD 04/23/2019

1.0 mg/L	1.0 mg/L	0.10 mg/L	0.10 mg/L	1.0 mg/L	mmhos	10.0 u	FEET
ND	ND	ND	ND	7.1	1.98	6.7	144.5

GroundWater Monitoring Well #8

RVICES, INC.

REPORTING PERIOD 04/23/2019

1.0 mg/L	1.0 mg/L	0.10 mg/L	0.10 mg/L	1.0 mg/L	mmhos	10.0 u	FEET
ND	1	ND	ND	10.9	2.8	6.68	144.18

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EPA = TARGET RATE

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	ARSENIC TOTAL	ARSENIC FILTERED	LEAD FILTERED	NICKEL FILTERED	SELENIUM FILTERED	ZINC FILTERED	BARIUM FILTERED	IRON TOTAL	IRON FILTERED	TOTAL MANGANESE	ALUMINUM	CHLORIDE	SODIUM
STANDARD	MCL	MCL	MCL		MCL	NSDWR	MCL	NSDWR	NSDWR	NSDWR	NSDWR	NSDWR	NAS
LIMIT	10 ug/L	10 ug/L	5 ug/L	10 ug/L	5 ug/L	20 ug/L	10 ug/L	50 ug/L	50 ug/L	5 ug/L	75 ug/L	10 mg/L	0.5 mg/L

GWW #1 (ESE DOMESTIC)

TESTING BY PACE ANALYTICAL SERVICES, INC.

REPORTING PERIOD 10/28/2018

FILTERED SAMPLES

quantitative level	2.0 ug/L	2.0 ug/L	10.0 ug/L	5.0 ug/L	15.0 ug/L	50.0 ug/L	5.0 ug/L	50.0 ug/L	50.0 ug/L	5.0 ug/L	75.0 ug/L	5.0 mg/L	500.0 ug/L
04/16/2019	10.1	5.8	ND	ND	ND	ND	127	1,860	943	201	ND	60.7	31,000

GWW #2 (ESE EAST SUPPLY)

TESTING BY PACE ANALYTICAL SERVICES, INC.

REPORTING PERIOD 04/28/2019

FILTERED SAMPLES

quantitative level	5.0 ug/L	2.0 ug/L	10.0 ug/L	5.0 ug/L	15.0 ug/L	50.0 ug/L	5.0 ug/L	50.0 ug/L	50.0 ug/L	5.0 ug/L	75.0 ug/L	5.0 mg/L	500.0 ug/L
04/16/2019	ND	2.8	ND	5.4	ND	ND	113	374	341	543	ND	71.4	37,500

GWW #3 (ESE-GREEN)

TESTING BY PACE ANALYTICAL SERVICES, INC.

REPORTING PERIOD 04/28/2019

FILTERED SAMPLES

quantitative level	1.0 ug/L	1.0 ug/L	10.0 ug/L	5.0 ug/L	15.0 ug/L	50.0 ug/L	5.0 ug/L	50.0 ug/L	50.0 ug/L	5.0 ug/L	75.0 ug/L	5.0 mg/L	500.0 ug/L
04/16/2019	3.8	3.6	ND	ND	ND	260	114	58.3	ND	ND	ND	37	24,100

GWW #5 (ESE-KING)

TESTING BY PACE ANALYTICAL SERVICES, INC.

REPORTING PERIOD 04/28/2019

FILTERED SAMPLES

quantitative level	1.0 ug/L	1.0 ug/L	10.0 ug/L	5.0 ug/L	15.0 ug/L	50.0 ug/L	5.0 ug/L	50.0 ug/L	50.0 ug/L	5.0 ug/L	75.0 ug/L	10.0 mg/L	500.0 ug/L
04/16/2019	2.3	2.7	ND	ND	ND	ND	104	ND	ND	ND	ND	138	64,200

GWW TFT (PRIVATE WELL)

TESTING BY PACE ANALYTICAL SERVICES, INC.

REPORTING PERIOD 04/28/2019

FILTERED SAMPLES

quantitative level	1.0 ug/L	1.0 ug/L	10.0 ug/L	5.0 ug/L	15.0 ug/L	50.0 ug/L	5.0 ug/L	50.0 ug/L	50.0 ug/L	5.0 ug/L	75.0 ug/L	5.0 mg/L	500.0 ug/L
04/16/2019	5.7	5.9	ND	ND	ND	68.6	52.5	ND	ND	ND	ND	38.6	20,300

GWW LEE (PRIVATE WELL)

TESTING BY PACE ANALYTICAL SERVICES, INC.

REPORTING PERIOD 04/28/2019

FILTERED SAMPLES

quantitative level	1.0 ug/L	1.0 ug/L	10.0 ug/L	5.0 ug/L	15.0 ug/L	50.0 ug/L	5.0 ug/L	50.0 ug/L	50.0 ug/L	5.0 ug/L	75.0 ug/L	10.0 mg/L	500.0 ug/L
04/16/2019	10.2	11.3	ND	29.4	ND	ND	301	904	765	1,440	ND	102	37,800

ESE ALCOHOL, INC. PO BOX 848 LEOTI, KS 67861 SWD	MONITORING REPORT KDHE - DIVISION OF ENVIRONMENT BUREAU OF WATER - TECHNICAL SERVICES SECTION FORBES FIELD, BUILDING 283 TOPEKA, KS 66620-001 ATTN: PERMITS & COMPLIANCE	DUE QUARTERLY: JAN 28TH, APRIL 28TH, JULY 28TH AND OCT 28TH FOR A YEAR THEN ANNUALLY THEREAFTER ISSUE DATE: 06/01/04 EXPIRATION DATE: <u>12/31/07</u> TELEPHONE NO. (620) 375-4904																											
GROUNDWATER WELLS																													
PAGE 2																													
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SULFATE</th> <th>SULFIDE</th> <th>NO₃ NITRATE</th> <th>TOTAL PHOSPHORUS</th> <th>TOTAL ORGANIC CARBON</th> <th>ELECTRICAL CONDUCTIVITY</th> <th>LAB pH</th> <th>FIELD pH</th> <th>STATIC WATER ELEVATION</th> </tr> </thead> <tbody> <tr> <td>NSDWR</td> <td></td> <td>NSDWR</td> <td></td> <td></td> <td></td> <td></td> <td>NSDWR</td> <td></td> </tr> <tr> <td>1.0 mg/L</td> <td>1.0 mg/L</td> <td>1.0 mg/L</td> <td>0.1 mg/L</td> <td>1.0 mg/L</td> <td>mmhos</td> <td>0.10 ug/L</td> <td>0.01 s.u.</td> <td>Feet</td> </tr> </tbody> </table>			SULFATE	SULFIDE	NO ₃ NITRATE	TOTAL PHOSPHORUS	TOTAL ORGANIC CARBON	ELECTRICAL CONDUCTIVITY	LAB pH	FIELD pH	STATIC WATER ELEVATION	NSDWR		NSDWR					NSDWR		1.0 mg/L	1.0 mg/L	1.0 mg/L	0.1 mg/L	1.0 mg/L	mmhos	0.10 ug/L	0.01 s.u.	Feet
SULFATE	SULFIDE	NO ₃ NITRATE	TOTAL PHOSPHORUS	TOTAL ORGANIC CARBON	ELECTRICAL CONDUCTIVITY	LAB pH	FIELD pH	STATIC WATER ELEVATION																					
NSDWR		NSDWR					NSDWR																						
1.0 mg/L	1.0 mg/L	1.0 mg/L	0.1 mg/L	1.0 mg/L	mmhos	0.10 ug/L	0.01 s.u.	Feet																					
GWW #1 (ESE DOMESTIC) TESTING BY PACE ANALYTICAL SERVICES, INC. REPORTING PERIOD 04/28/2019 FILTERED SAMPLES																													
5.0 mg/L	1.0 mg/L	0.10 mg/L	0.10 mg/L	1.0 mg/L	umhos	0.10 ug/L	0.10 ug/L	mg/L																					
74.2	ND	4.2	ND	1	0.709	NT	7.26	NT																					
GWW #2 (ESE EAST SUPPLY) TESTING BY PACE ANALYTICAL SERVICES, INC. REPORTING PERIOD 04/28/2019 FILTERED SAMPLES																													
5.0 mg/L	1.0 mg/L	0.10 mg/L	0.10 mg/L	1.0 mg/L	umhos	0.10 ug/L	0.10 ug/L	mg/L																					
83.3	ND	4	ND	1.3	0.819	NT	7.12	NT																					
GWW #3 (ESE-GREEN) TESTING BY PACE ANALYTICAL SERVICES, INC. REPORTING PERIOD 04/28/2019 FILTERED SAMPLES																													
5.0 mg/L	1.0 mg/L	0.10 mg/L	0.10 mg/L	1.0 mg/L	umhos	0.10 ug/L	0.10 ug/L	mg/L																					
71.1	ND	7.2	ND	ND	0.633	NT	7.48	NT																					
GWW #5 (ESE-KING) TESTING BY PACE ANALYTICAL SERVICES, INC. REPORTING PERIOD 04/28/2019 FILTERED SAMPLES																													
10.0 mg/L	1.0 mg/L	0.50 mg/L	0.10 mg/L	1.0 mg/L	umhos	0.10 ug/L	0.10 ug/L	mg/L																					
95.9	ND	8.5	ND	ND	1.12	NT	7.13	NT																					
GWW TFT (PRIVATE WELL) TESTING BY PACE ANALYTICAL SERVICES, INC. REPORTING PERIOD 04/28/2019 FILTERED SAMPLES																													
5.0 mg/L	1.0 mg/L	0.50 mg/L	0.10 mg/L	1.0 mg/L	umhos	0.10 ug/L	0.10 ug/L	mg/L																					
50.3	ND	6.6	ND	ND	0.507	NT	7.69	NT																					
GWW LEE (PRIVATE WELL) TESTING BY PACE ANALYTICAL SERVICES, INC. REPORTING PERIOD 04/28/2019 FILTERED SAMPLES																													
10.0 mg/L	1.0 mg/L	0.10 mg/L	0.10 mg/L	1.0 mg/L	umhos	0.10 ug/L	0.10 ug/L	mg/L																					
29	ND	0.8	ND	4.2	1.32	NT	6.66	NT																					

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FORBES FIELD, BUILDING 283
TOPEKA, KS 66620-0001
ATTN: PERMITS & COMPLIANCE

SAMPLED AND ANALYZED PRIOR TO IRRIGATION
SEASON WHEN UTILIZED FOR IRRIGATION
REPORTED ANNUALLY

ISSUE DATE 12/01/2019
EXPIRATION DATE 09/30/2015

TELEPHONE NUMBER (620) 375-4904

KANSAS PERMIT # I-UA26-NP01
ISSUE DATE 06/01/2004
EXPIRATION DATE 09/30/2015

MASH WATER IRRIGATION

PAGE 1

KANSAS PERMIT # I-UA26-NP01

KANSAS PERMIT # I-UA26-NP01

CHLORIDE	SODIUM	SULPHATE	AMMONIUM NH3-N	NITRATE NOS	TOTAL PHOSPHOROUS	TKN	POTASSIUM	pH	TOTAL CALCIUM	TOTAL MAGNESIUM	HARDNESS	ALKALINITY	ELECTRICAL CONDUCTIVITY	TDS	SAR ABSORPTION	DISSOLVED ORGANIC CARBON
TESTED BY PACE ANALYTICAL SERVICES, INC.																
REPORTING PERIOD 04/28/2019 TESTED BY PACE ANALYTICAL SERVICES, INC.																
quantitative level	20.0 mg/L	5000 ug/L	20.0 mg/L	5.0 mg/L	1.0 mg/L	20.0 mg/L	25.0 mg/L	5000 ug/L	0-10 s.u.	2000 ug/L	500 ug/L	5000 mg/L	40.0 mg/L	1.0 umhos/cm	5.0 mg/L	1000 mg/L
04/16/2019	363	335,000	139	208	0.3	690	402	1,190,000	4.9	269,000	358,000	2,150,000	1,460	8,140	7,360	3.1